

DATA ANALYST INTERNSHIP



Task 4: SQL for Data Analysis

- Objective: Use SQL queries to extract and analyze data from a database.
- Tools: MySQL or PostgreSQL or SQLite
- Deliverables: SQL queries in a SQL file + screenshots of output
- Hints/Mini Guide:
 - a. Use SELECT, WHERE, ORDER BY, GROUP BY
 - b. Use JOINS (INNER, LEFT, RIGHT)
 - c. Write subqueries
 - d. Use aggregate functions (SUM, AVG)
 - e. Create views for analysis
 - f. Optimize queries with indexes
- Dataset: Ecommerce_SQL_Database(or any data set of your choice)
- Outcome: Learn to manipulate and query structured data using SQL.

Interview Questions:

- 1. What is the difference between WHERE and HAVING?
- 2. What are the different types of joins?
- 3. How do you calculate average revenue per user in SQL?
- 4. What are subqueries?
- 5. How do you optimize a SQL query?
- 6. What is a view in SQL?
- 7. How would you handle null values in SQL?

★ Task Submission Guidelines

• Time Window:

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10:00 PM

• Self-Research Allowed:

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

• X Debug Yourself:

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

• No Paid Tools:

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

• **GitHub Submission:**

Create a new GitHub repository for each task.

Add everything you used for the task — code, datasets, screenshots (if any), and a **short README.md** explaining what you did.

L Submit Here:

After completing the task, paste your GitHub repo link and submit it using the link below:

SUBMISSION LINK

